

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNALS (CPS) ON THE NORTH, SOUTH, AND WEST LEGS OF THE INTERSECTION OF MD 157 (MERRITT BOULEVARD) AND MEADOW LANE/MOORGATE ROAD IN BALTIMORE COUNTY. SETBACK AND VIDEO SAMPLING DETECTION ARE PROPOSED FOR NORTHBOUND AND SOUTHBOUND LEGS OF MD 157.

MD 157 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, FULLY TRAFFIC-ACTUATED MODE. ALTERNATIVE PEDESTRIAN PHASES FOR THE NORTH AND SOUTH LEGS SHALL REMAIN. A MAINLINE PEDESTRIAN PHASE FOR THE WEST LEG IS PROPOSED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT: I-8 CAMERAS WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

TO CROSS MERRITT BOULEVARD:

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS MERRITT AT MOORGATE AND MEADOW, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS MEADOW LANE:

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS MEADOW AT MERRITT, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

Ms. Erin Kuhn
Assistant District Engineer - Traffic
Phone: 410-229-2381

Mr. Michael Pasquarillo
District Utility Engineer
Phone: 410-229-2421

Mr. Andre Futrell
Assistant District Engineer - Maintenance
Phone: 410-229-2361

OFFICE OF TRAFFIC AND SAFETY:

Ms. Corren Johnson
Chief, Traffic Operations Division
Phone: 410-787-7630

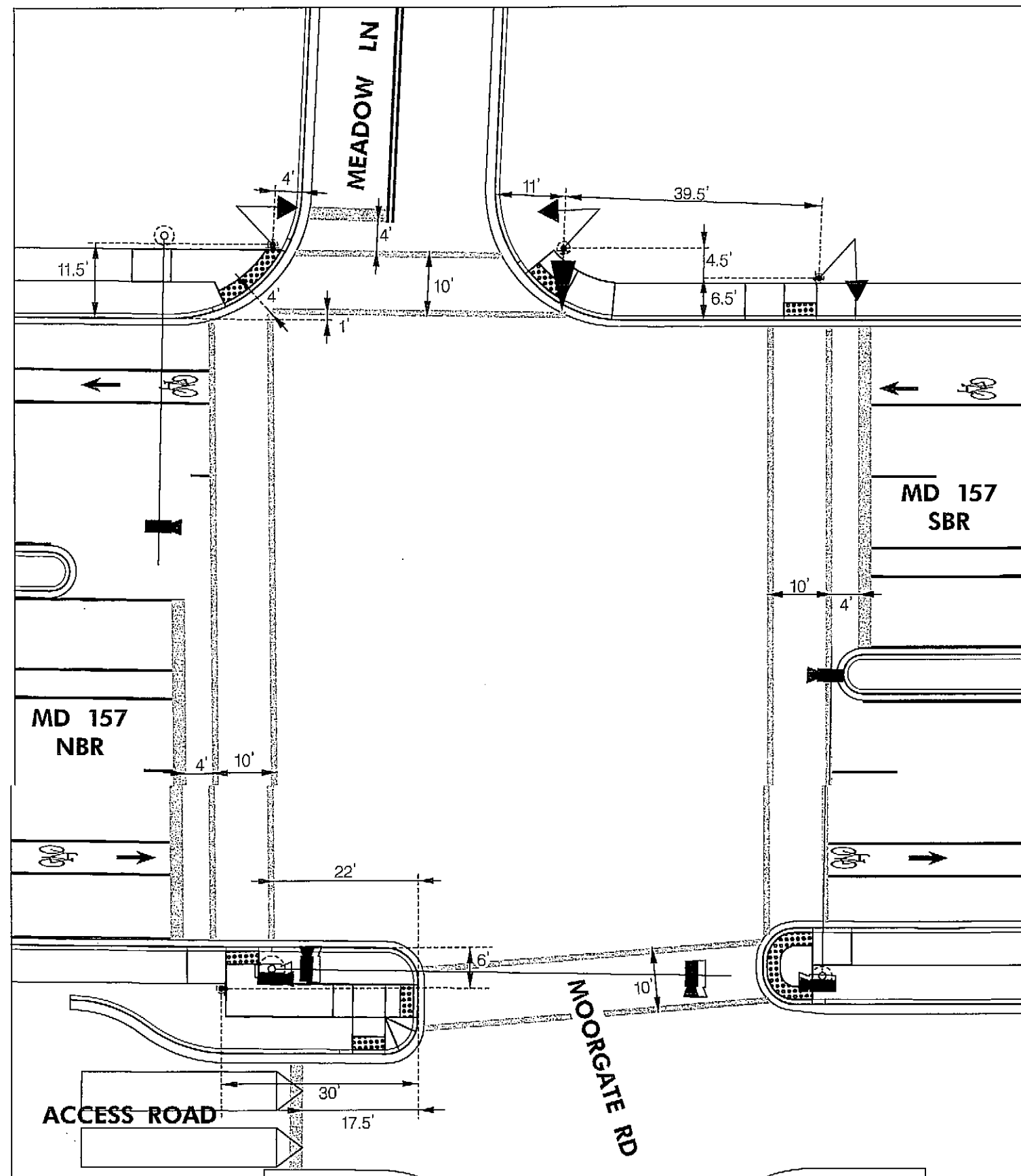
Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Chief Signal Operations
Phone: 410-787-7650

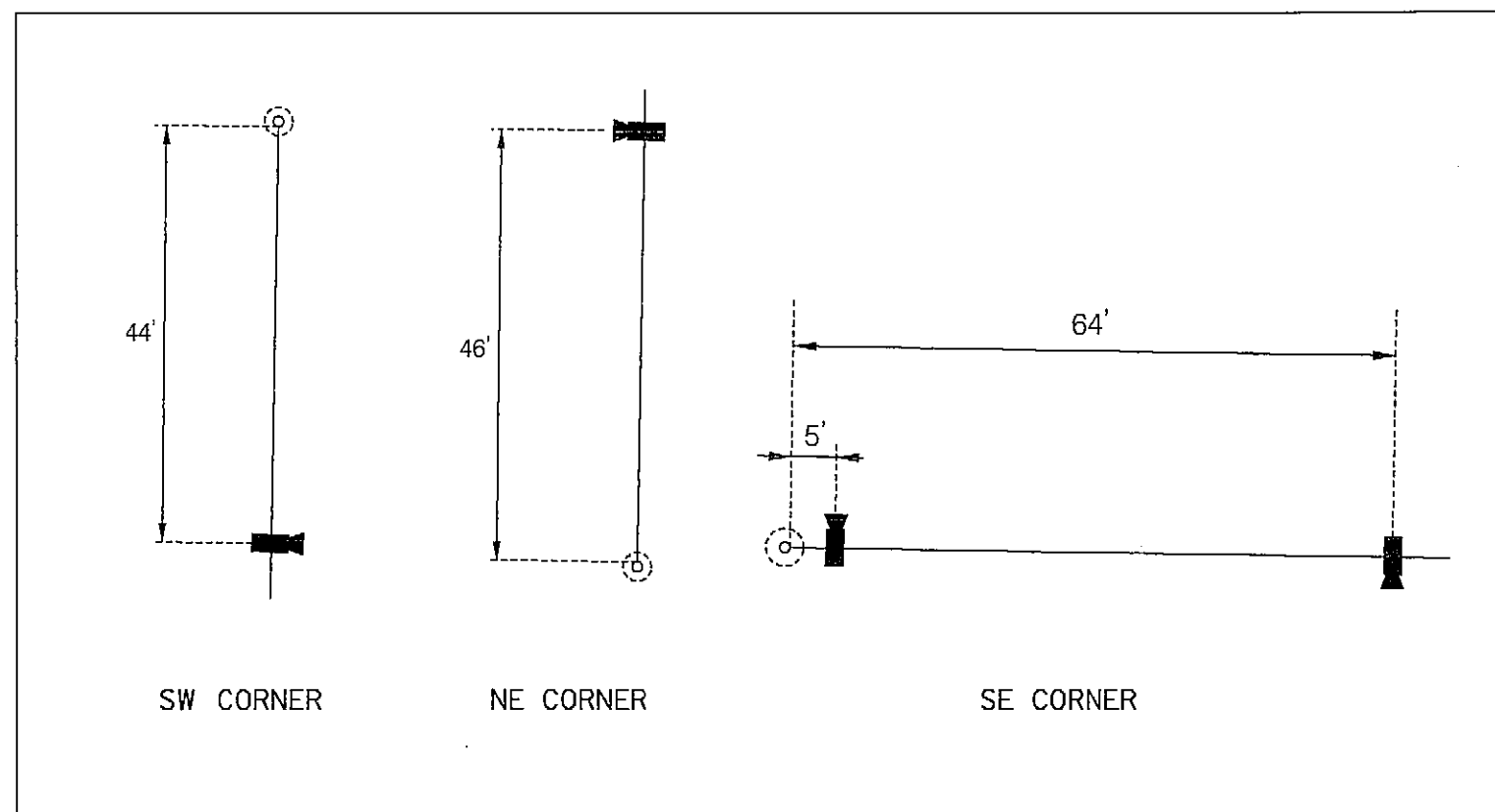
Mr. Eugene Bailey
Chief Sign Operations
410-787-7670

The Power Company Is:
BG&E CO.
7317 Parkway Dr. South
Hanover, MD
Phone: 410-859-9062

PROPOSED SIGNAL EQUIPMENT AND PAVEMENT MARKING LAYOUT - 1"=20'



PROPOSED MAST ARM DETAIL 1"=20'



EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
900000	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: I-8 CAMERAS
973023	6 SF	SHEET ALUMINUM SIGNS: 4 EA - R10-3(1) (9 IN. X 15 IN.) "PUSH BUTTON TO CROSS MERRITT BLVD" 2 EA - R10-3(1) (9 IN. X 15 IN.) "PUSH BUTTON TO CROSS MEADOW LANE"

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
203030	5 CY	TEST PIT EXCAVATION
585621	580 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585625	155 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585700	28 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH
800000	2 EA	ACCESSIBLE PEDESTRIAN PUSHBUTTON
800000	3 EA	RELOCATE EXISTING ACCESSIBLE PUSHBUTTON
800000	1 LS	REMOVE AND DISPOSE EXISTING EQUIPMENT
800000	10 LF	DISCONNECT, PULL-BACK, AND REROUTE CABLES
800000	2 EA	16 IN. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
800000	6 EA	VIDEO DETECTION CAMERA AND CABLE
801004	2 CY	CONCRETE FOR SIGNAL FOUNDATION
802145	8 EA	ADJUST EXISTING HANDHOLE
802501	115 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	110 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805135	425 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
810605	2 EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
811002	1 EA	REMOVE ELECTRICAL HANDHOLE
813015	6 SF	INSTALL OVERHEAD SIGN
818004	3 EA	10 FOOT BREAKAWAY PEDESTAL POLE
818010	1 EA	14 FOOT BREAKAWAY PEDESTAL POLE
860265	2 EA	RELOCATE EXISTING SIGNAL HEAD
860292	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	530 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	315 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CATEGORY CODE QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

A - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

B - ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C - ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

D - MICROLOOP PROBE LEAD IN CABLE - 1000 FOOT

E - CONTROL CABLE - VIDEO DETECTION CAMERA TO CONTROLLER

F - EXISTING POWER SERVICE

G - NON-INVASIVE MICROLOOP PROBE SET

H - PROPOSED NON-INVASIVE MICROLOOP PROBE SET

I - EXISTING PHONE DROP

J - EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 2 AND 6	G	G	G	G	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	R	R	R	R	R	R	FLOW	FLOW	DW	DW	DW	DW
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 ALT.	R	R	R	R	G	G	G	G	G	G	DW	WK	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	G	G	G	G	G	G	DW	FLOW	FLOW	FLOW	FLOW	FLOW
PHASE 4 AND 8 ALT. CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK	DARK	DARK

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 157 (MERRITT BOULEVARD)
AND MOORGATE ROAD/MEADOW LANE
DUNDALK, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 03/2013 CONTRACT NO. BA3325177

DESIGNED BY KXT COUNTY BALTIMORE

DRAWN BY KXT LOGMILE 03015703.03

CHECKED BY SDY TMS NO. 1089

F.A.P. NO. TOD NO.

TS NO. 4339B-GI DRAWING SG-04 OF 08 SHEET NO. 69 OF 100